



UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/774,832	01/31/2001	Robert J. McCarty JR.	CS-3	6255
7590 04/21/2004			EXAMINER	
Daniel R. Brown			CHANG, EDITH M	
P.O. Box 821130 Fort Worth, TX 76182-1130			ART UNIT	PAPER NUMBER
			2634	2
		DATE MAILED: 04/21/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
Series Astis a Ossessa	09/774,832	MCCARTY, ROBERT J.				
Office Action Summary	Examiner	Art Unit				
	Edith M Chang	2634				
The MAILING DATE of this communication ap Period for Reply	ppears on the cover sheet with the	correspondence address				
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period. - Failure to reply within the set or extended period for reply will, by statut Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	.136(a). In no event, however, may a reply be to only within the statutory minimum of thirty (30) do I will apply and will expire SIX (6) MONTHS fro te, cause the application to become ABANDON	imely filed ays will be considered timely. m the mailing date of this communication. ED (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on 31.	January 2001.					
2a)☐ This action is FINAL . 2b)☑ Thi	This action is FINAL . 2b)⊠ This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	,					
4) Claim(s) 1-12 is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration. 5) Claim(s) 5 and 11 is/are allowed. 6) Claim(s) 1-4,6-10,12 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examin 10) The drawing(s) filed on 31 January 2001 is/arc Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct 11) The oath or declaration is objected to by the E	e: a) ☐ accepted or b) ☒ objecte e drawing(s) be held in abeyance. S ction is required if the drawing(s) is c	ee 37 CFR 1.85(a). bjected to. See 37 CFR 1.121(d).				
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreig a) All b) Some * c) None of: 1. Certified copies of the priority documer 2. Certified copies of the priority documer 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	nts have been received. Its have been received in Application or the properties of	ntion No ved in this National Stage				
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summa Paper No(s)/Mail 5) Notice of Informal 6) Other:					

Application/Control Number: 09/774,832 Page 2

Art Unit: 2634

DETAILED ACTION

Drawings

- 1. The drawings are objected to as failing to comply with 37 CFR 1.84(p)(4) because reference character "13" has been used to designate both CNTRL and DSP in Fig.2. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.
- 2. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the apparatus with its comprising elements, a digital filter, and a controller must be shown or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

Specification

3. Applicant is reminded of the proper language and format for an abstract of the disclosure.

The language should be clear and concise and should not repeat information given in the title. It should avoid using phrases which can be implied, such as, "The disclosure concerns," "The disclosure defined by this invention," "The disclosure describes," etc.

Rewrite the first sentence without using the word "disclosed".

4. The disclosure is objected to because of the following informalities:

Page 19, lines 8-12, update the co-pending serial number to match the title. The serial

Art Unit: 2634

number 09/307,078 does not have the title "IMPROVED NYQUISST FILTER AND METHOD" and does not file on April 28, 1999.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

5. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

6. Claim 4 is rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 4, line 4, the term "said coefficients" fails clearly to indicate what coefficients of the filter are they: the coefficients of the "ramp-down coefficients" or other.

7. Claims 6 and 12 recite the limitation "the digital filter tap coefficients". There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Application/Control Number: 09/774,832

Art Unit: 2634

9. Claims 1-4, and 7-10 are rejected under 35 U.S.C. 102(e) as being anticipated by Shull et al. (US 6625227 B1).

Regarding claims 1 & 7, Shull et al. discloses an apparatus and its method for reducing output energy and bandwidth of an intermittent data stream through a digital filter (FIG.5), comprising: a digital filter (114 FIG.5), and a controller (132 FIG.5) coupled to the digital filter and operable to calculate at least a first ramp data field in accordance with coefficients selected to minimize energy in a truncated tail of the digital filter as a function of at least a first data field (FIG.3, column 2 lines 5-7 wherein the first message symbol C of the message is the first data field; Abstract and column 2 lines 25-35 wherein minimize energy in a truncated tail of the digital filter; FIG.4, column 5 lines 50-58/column 6 lines 27-37 wherein calculation is performed).

Regarding claims 2 & 8, Shull et al. discloses at least a first data field being adjacent to the ramp data field (FIG.3 the first data field C is adjacent to the ramp data field B).

Regarding claims 3 & 9, Shull et al. discloses the controller is further operable to window the ramp data field (FIG.4, column 2 lines 45-49, wherein windowing is performed, adapting the ramp symbol to the transmitted symbol data by creating/selecting the ramping profile).

Regarding claims 4 & 10, Shull et al. discloses the controller being operable to calculate both of a ramp-up and a ramp-down data field as a function of the at least a first data field and a second data field respectively, and wherein ramp-down coefficients are the mirror image of the coefficients (FIG.3, wherein comprises both a ramp-up and a ramp-down field as cited in the claim).

Application/Control Number: 09/774,832

Art Unit: 2634

Allowable Subject Matter

10. Claims 5 and 11 are allowed.

Conclusion

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edith M Chang whose telephone number is 703-305-3416. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Stephen Chin can be reached on 703-305-4714. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edith Chang April 7, 2004

> CHIEH M. FAN PRIMARY EXAMINER

Page 5